

Georgia DOT

Configuration Management

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September 18, 2005



Configuration Management

- Why did GDOT need CM?
- What would be the purpose of CM?
- What was the geographic coverage and possible expansion?



ITS Coverage Metro Atlanta

As of September 2007

ITS Devices :

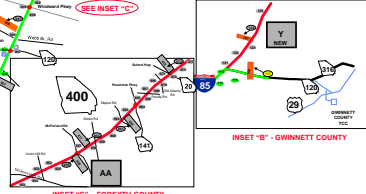
- 1 CMS Current locations
- 100 CMS Future locations
- 205 CCTV Currently Online
- 36 CCTV - view of CMS
- 600 CCTV Future locations
- C-17 CCTV / TCC county/city
- Ramp Meter Locations
- HOV CMS locations
- 101 PDS CMS locations

LEGEND :

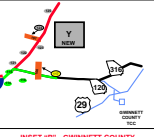
- Current Coverage (143 mi)
- Under Construction (21 mi)
- Letting April 2006 (7 mi)
- Future Coverage (81 mi)
- ABC New or Future HUB Location
- ABC Current HUB Location
- Partial Mngt / Smog CMS



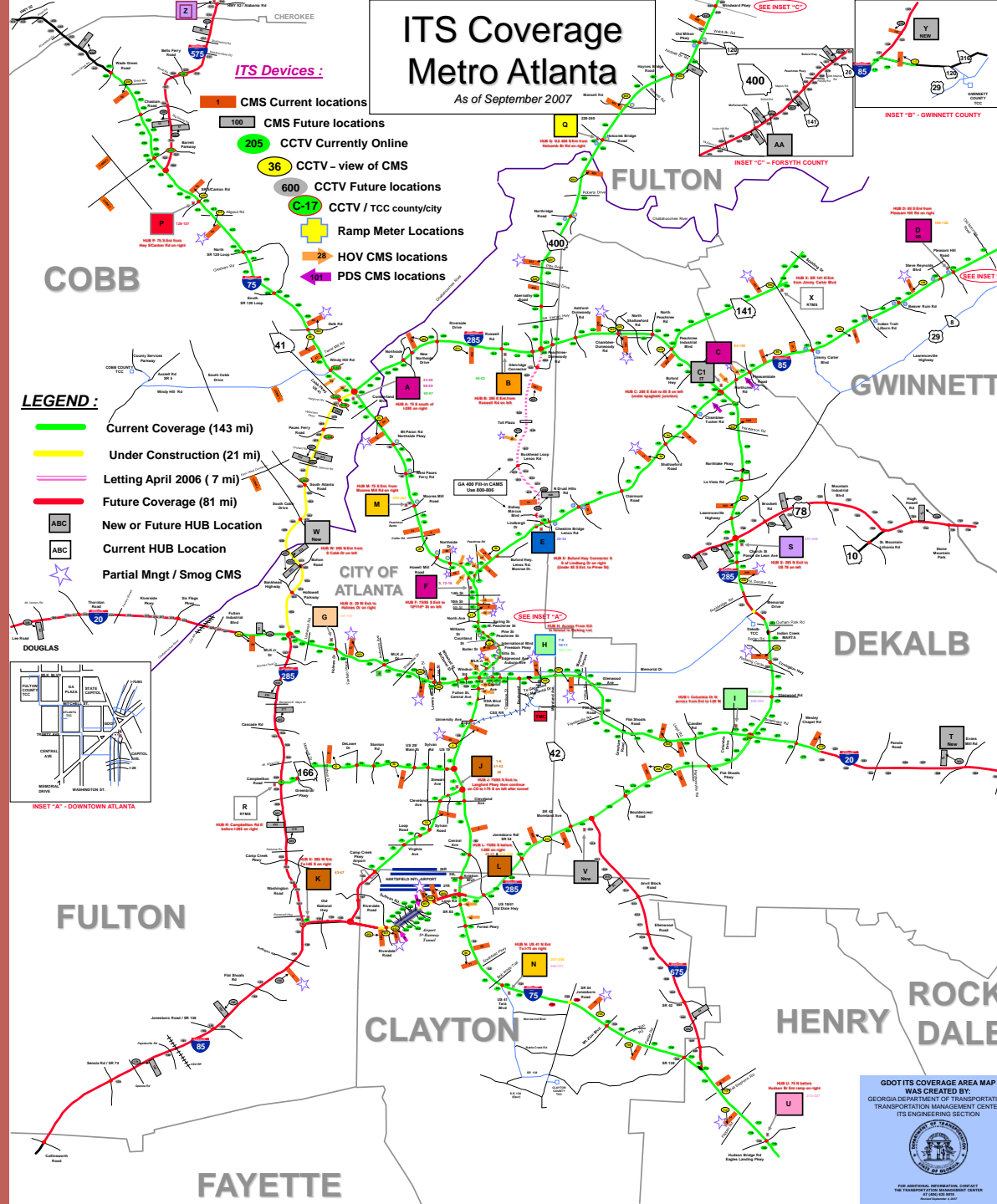
INSET "A" - DOWNTOWN ATLANTA



INSET "C" - FORSYTH COUNTY



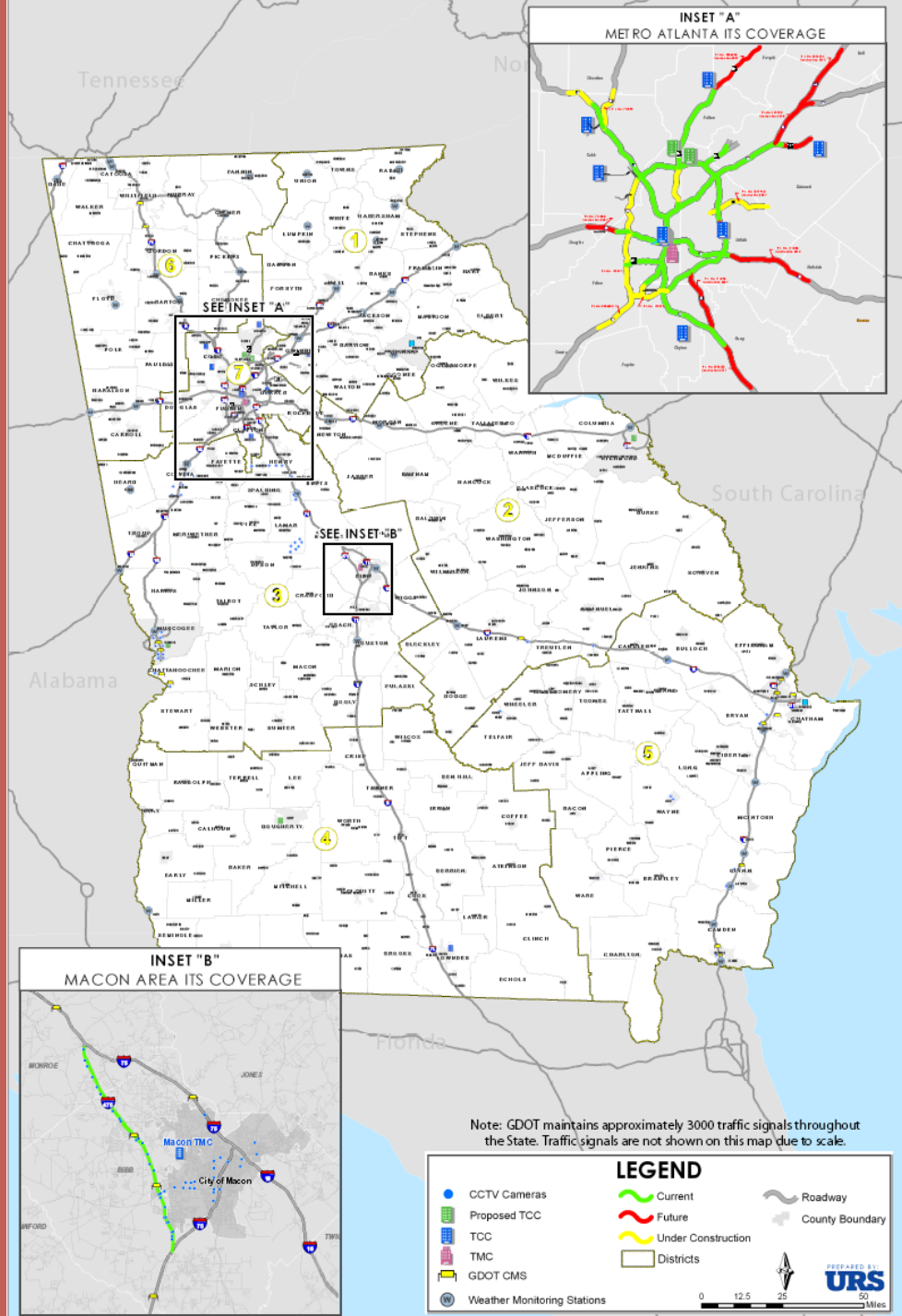
INSET "B" - GWINNETT COUNTY



GDOT ITS COVERAGE AREA MAP
 WAS CREATED BY:
 GEORGIA DEPARTMENT OF TRANSPORTATION
 TRANSPORTATION MANAGEMENT CENTER
 ITS ENGINEERING SECTION



FOR ADDITIONAL INFORMATION, CONTACT:
 THE TRANSPORTATION MANAGEMENT CENTER
 AT (404) 485-3000
 WWW.GDOT.GOV



Configuration Management

- How did GDOT approach the challenge?
- What was the result?
- Did it work?
- Was the first attempt a disaster?



Configuration Management

CM Manual Mk II

- Hardware
- COTS Software
- Documentation

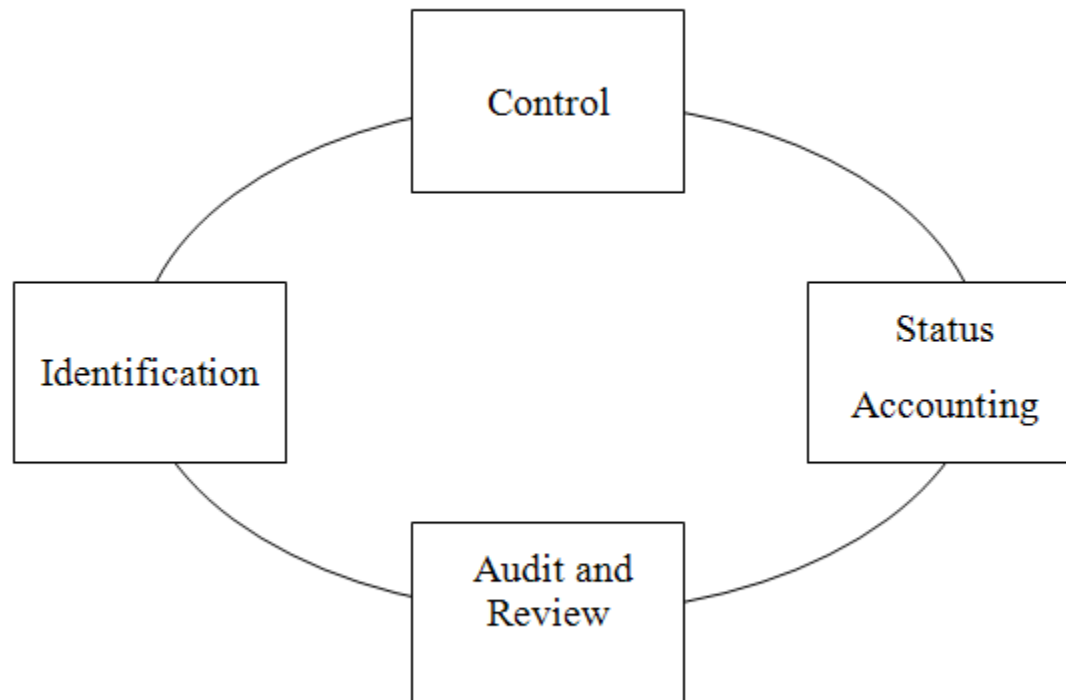


CM Manual – A Closer Look

- The CM Manual is a living document.
- Part 1 – The Procedures
- Part 2 – The Appendix containing the forms needed to do the job



The Four Processes



Configuration Change Board

TEAM MEMBER	RESPONSIBILITY
CM Manager	CCB Chairperson
	Plans and implements overall CM program
	Prepares and provides CM status reports
	Provides CM Training
	Identifies CM resources
	Directs overall CM activities
	Maintains and develops CM procedures
	Plans and implements formal CM audits
	Identifies CM baseline requirements
	Attends formal project reviews
Program Manager	CCB permanent member
	Provides appropriate schedule, budget and resources
	Helps in planning overall CM program
	Oversees overall project reviews
	Identifies CM report requirements
	Helps CM Manager determine CM training for GDOT employees
	Helps CM Manager determine CM baseline requirements
	Recommends training requirements
	Recommends new CM procedures or changes to existing ones
	Helps CM Manager monitor overall CM activities

Configuration Change Board

TEAM MEMBER	RESPONSIBILITY
Software Manager	CCB permanent member
Hardware Manager	Verifies that personnel are following CM procedures
TSEF Manager	Assists in CM audits
Operations Manager	Evaluates and manages COTS software (if applicable)
Design Manager	Provides QA evaluation and assurance of changes to baseline items
<u>NaviGator</u> Systems Manager	Initiates and/or attends formal project reviews
	Help determine training requirements by providing expertise in each functional area.
	Maintains documentation repository
	Assists in CM audits
	Evaluates and manages COTS software (if applicable)

Creating A Baseline

Documents

- NaviGator System Documents
- NaviGator Hardware Documents
- Special Provisions (Base) Documents
- Special Provisions (Project) Documents



Creating A Baseline

Drawings

- Project Plan Drawings
- NaviGator Infrastructure Drawings



Creating A Baseline

Software

Use a software build and versioning program.



NaviGator- System Change Request (SCR)

ORIGINATOR / CAR LEADER

1. ORIGINATOR:		2. SECTION:		3. DATE:	
4. SUBJECT:					
5. TYPE OF CHANGE:		6. REASON FOR CHG:		7. AFFECTS:	
A <input type="checkbox"/> STAND ALONE B <input type="checkbox"/> ASSESSMENT REQUIRED		A <input type="checkbox"/> DEFECT/ERROR B <input type="checkbox"/> IMPROVEMENT C <input type="checkbox"/> ADDITION		A <input type="checkbox"/> SOFTWARE B <input type="checkbox"/> HARDWARE C <input type="checkbox"/> DOCUMENT(S)	
				A <input type="checkbox"/> EMERGENCY B <input type="checkbox"/> URGENT C <input type="checkbox"/> ROUTINE	
9. DESCRIPTION OF CONDITION: A <input type="checkbox"/> ADDITIONAL DATA ATTACHED					
10. RECOMMENDED SOLUTION: A <input type="checkbox"/> SUPPORTING DATA ATTACHED					
11. CAR TEAM CONSULTED:					
12. DOC/DWG/SW NO. AFFECTED:					

CM MANAGER

13. CAR LEADER:		14. DUE DATE:		15. OCB MTG:		19. APPROVAL	
16. NAME		17. ASSIGNMENT		18. DUE DATE		A <input type="checkbox"/> PRE-APPROVED B <input type="checkbox"/> APPROVED C <input type="checkbox"/> REJECTED	
20. NOTES:							
21. DATA UPDATE ASSIGNMENTS							
A. DOC/DWG/SOFTWARE NO.	B. OLD REVIEWER	C. NEW REVIEWER	D. DATA UPDATE BY	E. DATA Q/A BY	F. DUE DATE		

22. SCR NO.
23. PARENT NO.
24. SCR HISTORY
A. LOG DATE:
B. READY OCB:
C. OCB DATE:
D. CLOSE DATE:
E. CM MGR:

SCR

NaviGator- System Change Request (SCR)

1. ORIGINATOR:

2. SECTION:

3. DATE:

4. SUBJECT:

5. TYPE OF CHANGE:

- A ☐ STAND ALONE
B ☐ ASSESSMENT
REQUIRED

6. REASON FOR CHG:

- A ☐ DEFECT/ERROR
B ☐ IMPROVEMENT
C ☐ ADDITION

7. AFFECTS:

- A ☐ SOFTWARE
B ☐ HARDWARE
C ☐ DOCUMENT(S)

8. PRIORITY:

- A ☐ EMERGENCY
B ☐ URGENT
C ☐ ROUTINE

9. DESCRIPTION OF CONDITION:

A ☐ ADDITIONAL DATA ATTACHED

10. RECOMMENDED SOLUTION:

A ☐ SUPPORTING DATA ATTACHED

11. CAR TEAM CONSULTED:

12. DOC/DWG/SW NO. AFFECTED:

22. SCR NO.

23. PARENT NO.

24. SCR HISTORY

A. LOG DATE:

B. READY OCB:

C. OCB DATE:

D. CLOSE DATE

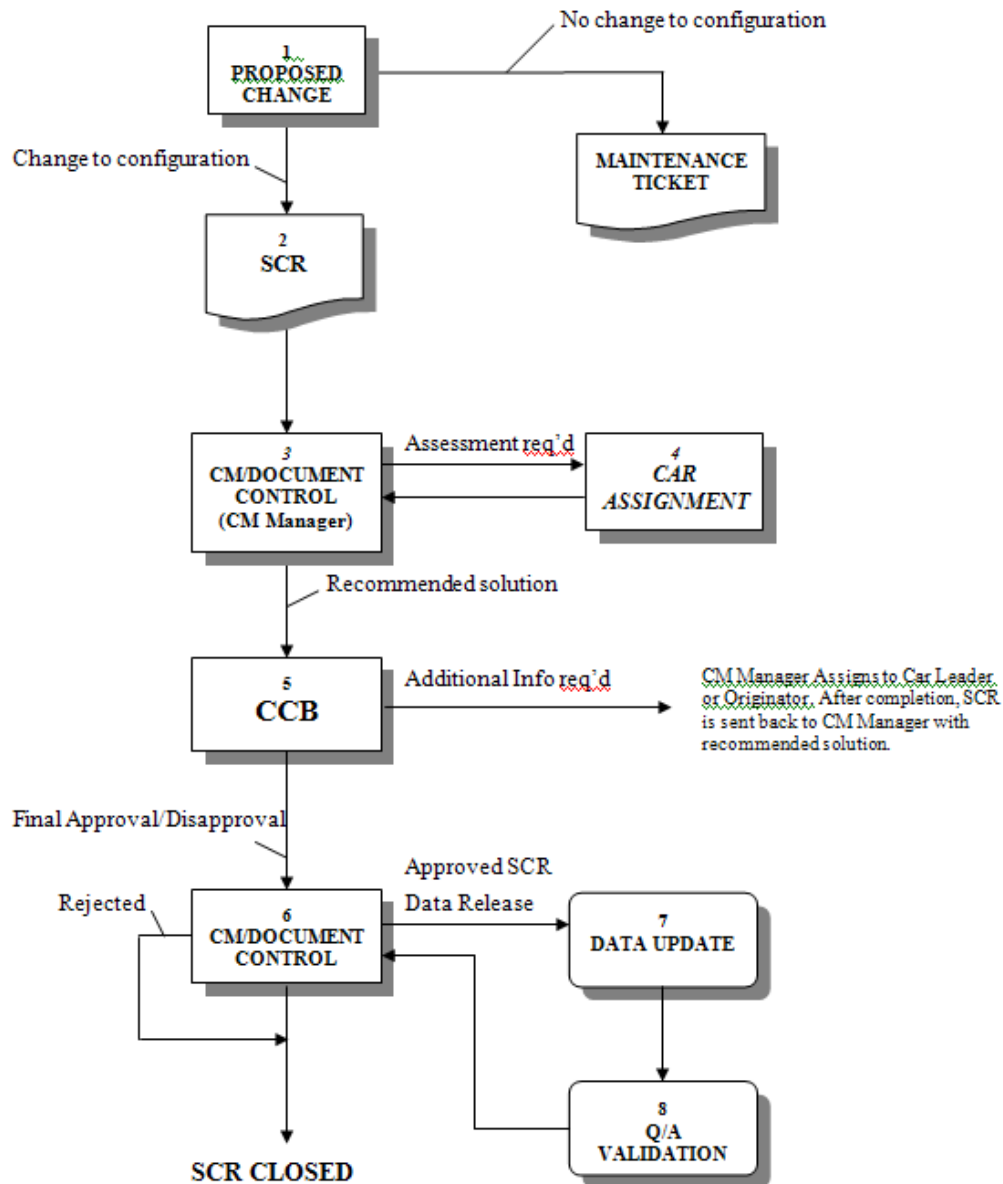
E. CM MGR:

ORIGINATOR / CAR LEADER

SCR

Cdr MANAGER	13. CAR LEADER:		14. DUE DATE:		15. OCS MTG:		19. APPROVAL	
	16. NAME	17. ASSIGNMENT			18. DUE DATE		A <input type="checkbox"/> PRE APPROVED	
							B <input type="checkbox"/> APPROVED	
							C <input type="checkbox"/> REJECTED	
	20. NOT ES:							
	21. DATA UPDATE ASSIGNMENTS							
	A. DOC/DWG/SOFTWARE NO.	B. OLD REVIEWER	C. NEW REVIEWER	D. DATA UPDATE BY	E. DATA Q/A BY	F. DUE DATE		

SCR Process



SCR Log

- Every SCR that is submitted is entered into a log.
- The log shows the status of every SCR, Open, Closed, Rejected and Withdrawn.
- The SCR Log is currently on a multi-tabbed spreadsheet that is distributed every week to all Board Members, CAR Leaders and Consultants who are working on GDOT Projects.



Any Questions?

 Copies of the GDOT CM Manual are available. Please contact me for a copy.

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